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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/535,158	03/24/2000	Katsuhiro Aoki	0557-49331-2	1887
22850	7590 06/06/2003	·		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			EXAMINER	
	1940 DUKE STREET ALEXANDRIA, VA 22314		GRAINGER, QUANA MASHELL	
			ART UNIT	PAPER NUMBER
			2852	
			DATE MAILED: 06/06/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u></u>		
	Application No. Applicant(s) 2852	
Office Action Summary	Examiner Q. GRAING	Group Art Unit
-The MAILING DATE of this communication appears	on the cover sheet i	beneath th correspondence address—
P riod for Reply		•
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO DF THIS COMMUNICATION.	EXPIRE 3	MONTH(S) FROM THE MAILING DATE
 Extensions of time may be available under the provisions of 37 CFR 1 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a re If NO period for reply is specified above, such period shall, by default Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail term adjustment. See 37 CFR 1.704(b). 	ply within the statutory mexpire SIX (6) MONTHS	ninimum of thirty (30) days will be considered timely. from the mailing date of this communication. n to become ABANDONED (35 U.S.C. § 133).
Status 3/19/200 Responsive to communication(s) filed on 3/19/200)3	<u> </u>
☐ This action is FINAL.		,
☐ Since this application is in condition for allowance except accordance with the practice under Ex parte Quayle, 1935	for formal matters, pr C.D. 1 1; 453 O.G. 21	rosecution as to the merits is closed in 13.
Disposition of Claims		
Of the above claim(s) 1-11, 15-25, 29	is/are pending in the application. is/are withdrawn from consideration.	
□ Claim(s)		is/ara allowed
© Claim(s) 12,26 © Claim(s) 13,27		is/are rejected.
☐ Claim(s)		are subject to restriction or election requirement
Application Papers ☐ The proposed drawing correction, filed on	is □ annowed	•
☐ The drawing(s) filed on is/are object		• •
☐ The specification is objected to by the Examiner.		
☐ The oath or declaration is objected to by the Examiner.	,	
Pri rity under 35 U.S.C. § 119 (a)–(d)		
☐ Acknowledgement is made of a claim for foreign priority up	nder 35 U.S.C. § 119 ((a)-(d).
☐ All ☐ Some* ☐ None of the:	•	,,,,
☐ Certified copies of the priority documents have been re	ceived.	
☐ Certified copies of the priority documents have been re	ceived in Application	No
☐ Copies of the certified copies of the priority documents	have been received	
in this national stage application from the International	- ·	` "
*Certified copies not received:		•
tta hment(s)		
tta hment(s) Information Disclosure Stat m nt(s), PTO-1449, Paper No(s)	Int rview Summary, PTO-413
• •		Int rview Summary, PTO-413 Notice of Informal Patent Application, PTO-152

U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

Part of Pap r No.

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 12 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wada et. al. in view of the admitted prior art of record. Wada et al. teaches a latent image bearing member 1 having a potential thereon; a developing device 12, the developing device including, a

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conveyor member 2-3 configured to convey the one-component developer from a one-component developer supply and to a developing region where part of the developer-bearing member is closely spaced next to a part of the latent image bearing member 1, a thin layer forming device 7 configured to form the one-component developer being conveyed on the conveyor member into a uniform thin layer having a height corresponding to 1 to 1.5 times the diameter of the toner particles of the one-component developer. The development region includes a gap between the conveyor surface portion and the opposed photoconductive surface portion that is equal to or less than about 150 micron.

Wada et al. also teaches an image forming apparatus comprising means for bearing a latent image including image areas and means for applying a developing bias voltage 10 to the means for conveying when the developing operation is performed; the thin layer forming device 7 configured to form the one-component developer on the conveyor member 1 into a uniform thin layer having a height corresponding to 1 to 1.5 times a diameter of the toner particles of the one-component developer. Wada et al. does not teach a two level developing method.

The admitted prior art of record teaches that a two level developing method is conventional (specification: page 1, lines 12-18). It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the teaching of Wada et al. with an image forming device using a developing method such as taught by the admitted prior art of record to also avoid agglomerates and obtain agglomerates free developer (column 1, line 65 column 2, line 5).

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Allowable Subject Matter

3. Claims 13 and 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims,

Response to Arguments

4. Applicant's arguments have been considered but they are moot in view of the new rejection.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Quana Grainger whose telephone number is 703-3087616. The examiner can normally be reached on weekdays between the hours of 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on 703-308-1373. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7382 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.

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Quana Grainger Primary Examiner Art Unit 2852

QG June 2, 2003